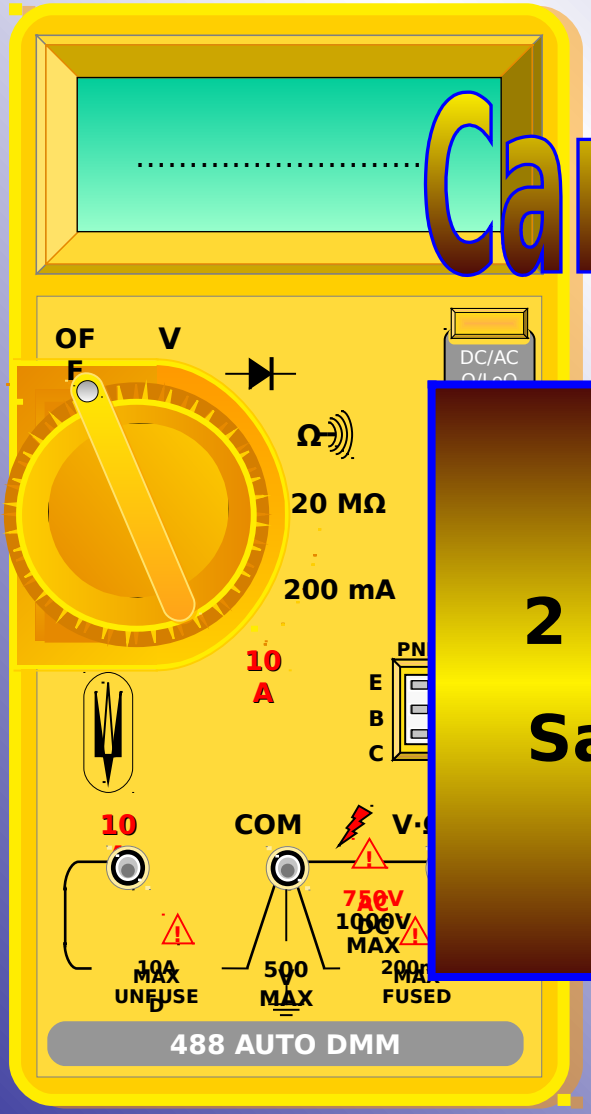
DC: (EOD-55D)

Care & Use Multimeter



Unclassified:

2 Hour Conference, W/ 2Hr. P/E1

Safety & Environmental Impact; “LOW”.

Terminal Learning Objective

Action: Identify & place the DMM in the correct setting to Measure DC & AC Voltage Current and Resistance.

Condition: Given an electrical circuit & Digital Multimeter.

Standard: A minimum accuracy of 80%

Introduction

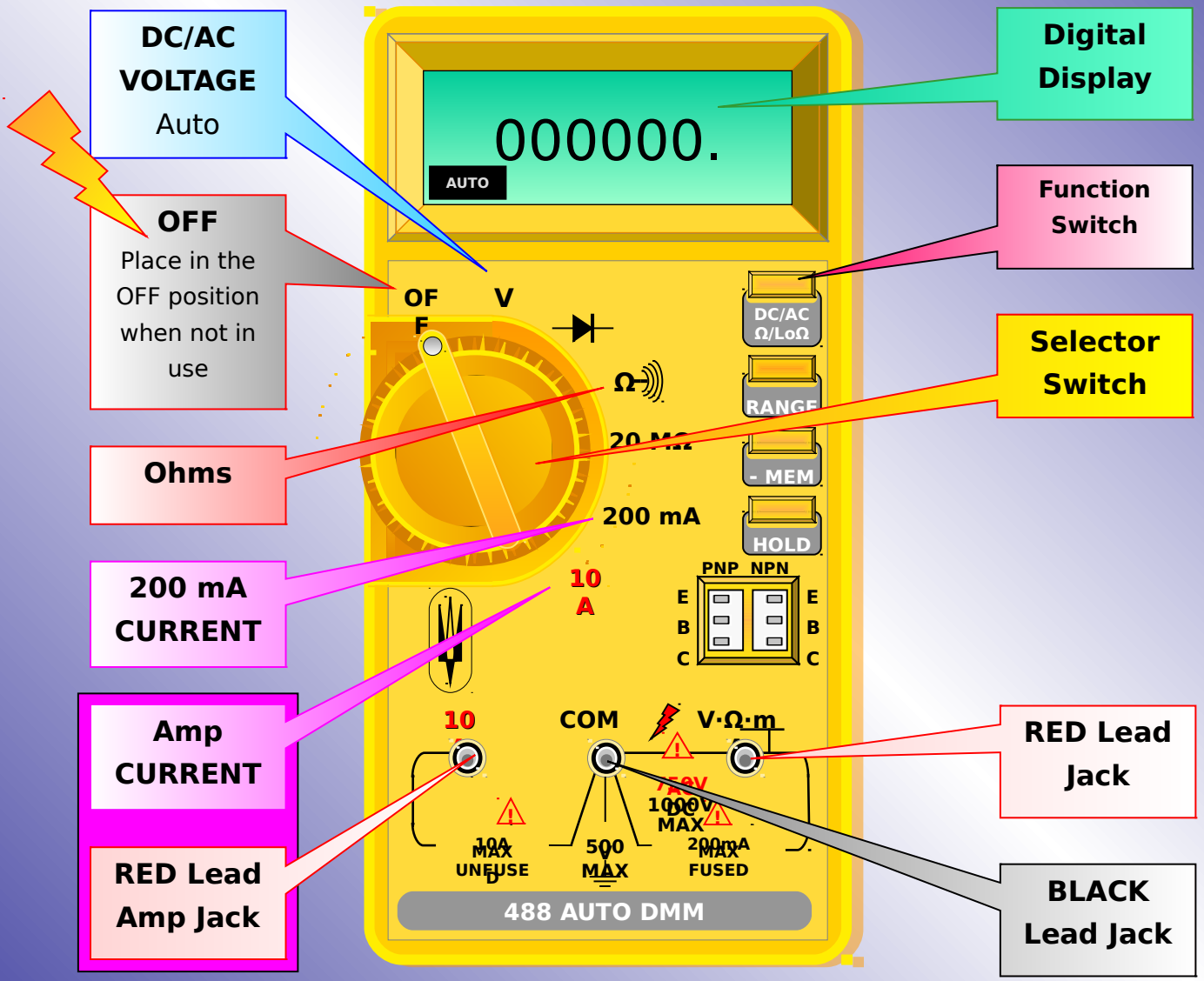
You have probably used some type of meter in the past; probably the speedometer on your automobile.

Electronic technicians also use a meter, called a multi-meter. This Instrument enables the technician to measure units of resistance, voltage and current to diagnose a malfunction.

Functional Areas

DC: Care & Use Multimeter (EOD-55D)

Functional Areas; Only Those Used In The Classroom.



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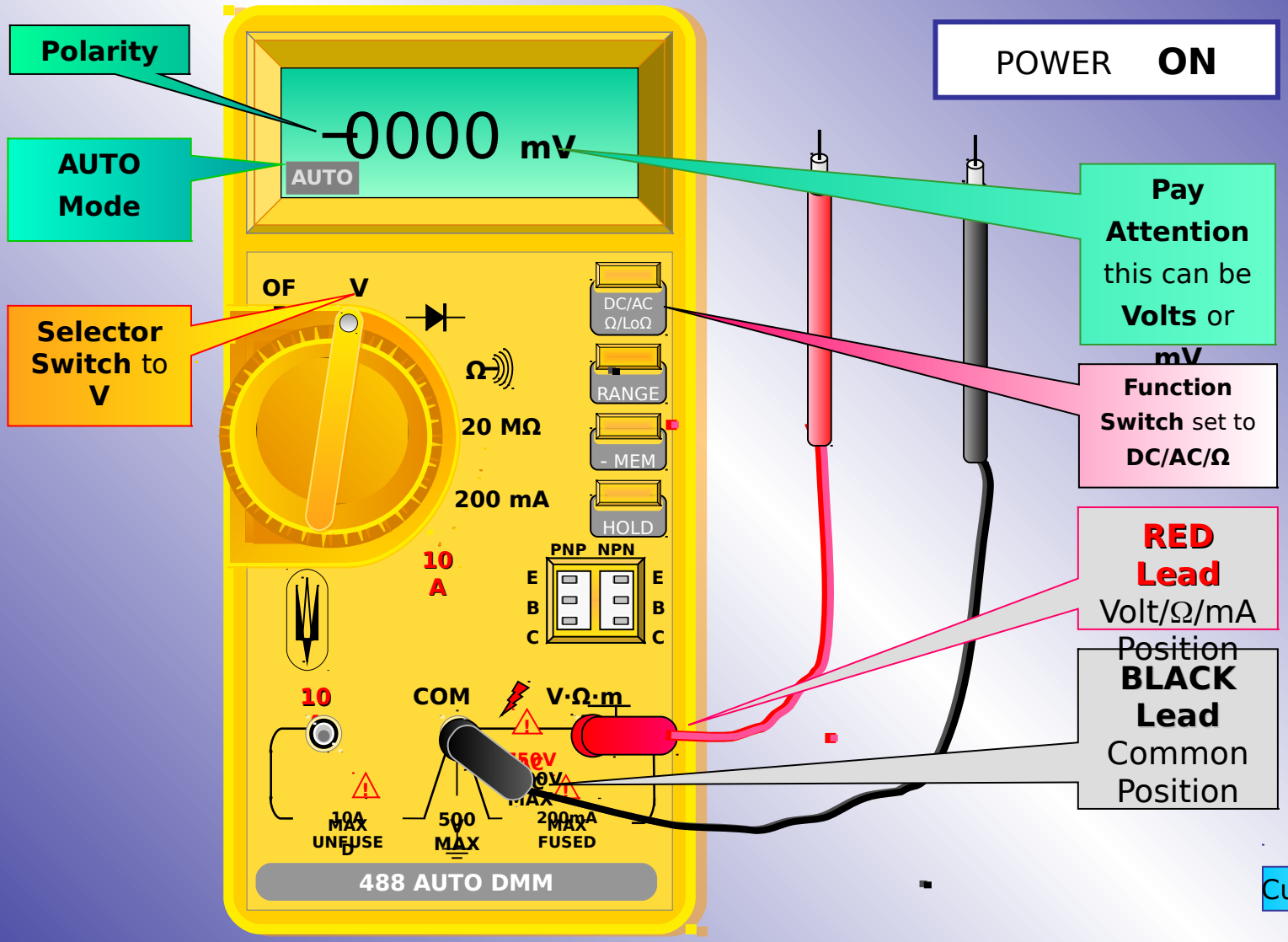
DC: Care & Use Multimeter (EOD-55D)

DC VOLTAGE;



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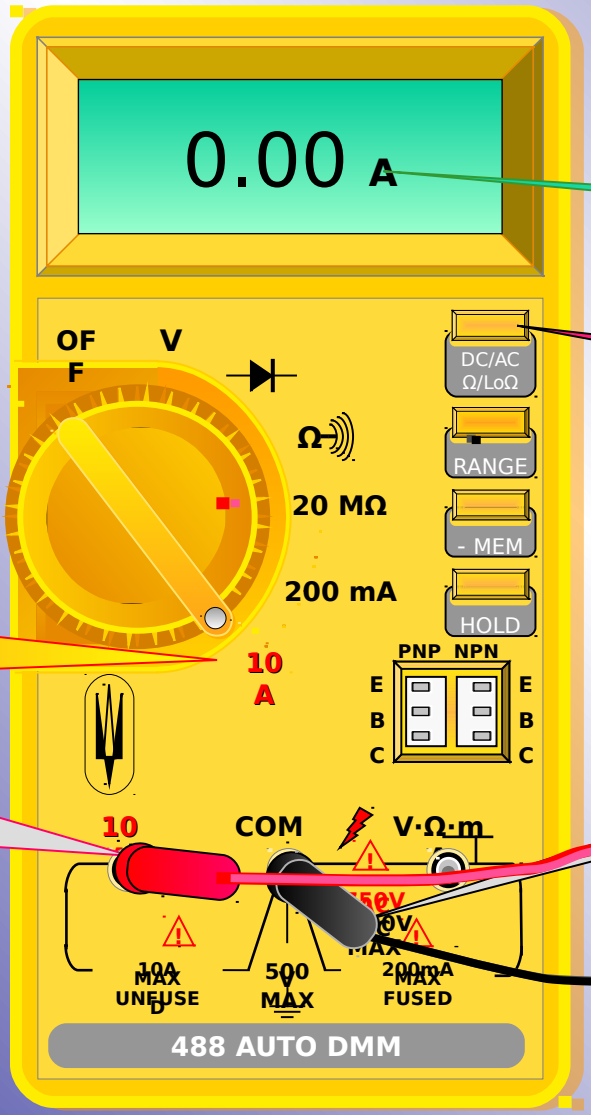
DC: Care & Use Multimeter (EOD-55D)

DC Current; 1 to 10 Amp.



POWER **ON**

A for **Amps**

Function Switch set to **DC/AC/Ω**

Selector Switch to **10 Amps**

BLACK Lead Common Position

RED Lead **10 Amp** Position

Current mA

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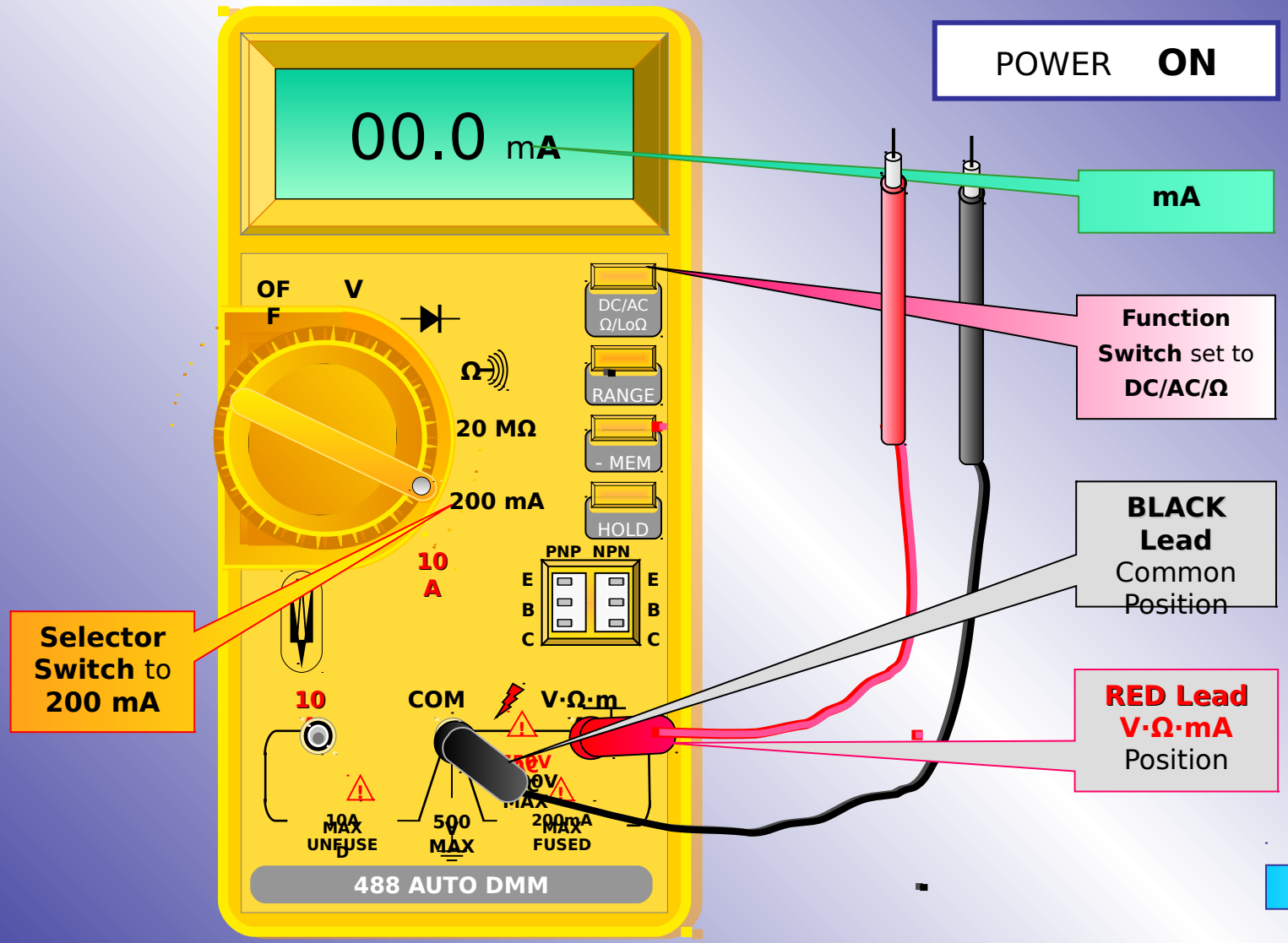
DC: Care & Use Multimeter (EOD-55D)

DC Current; milli Amp.



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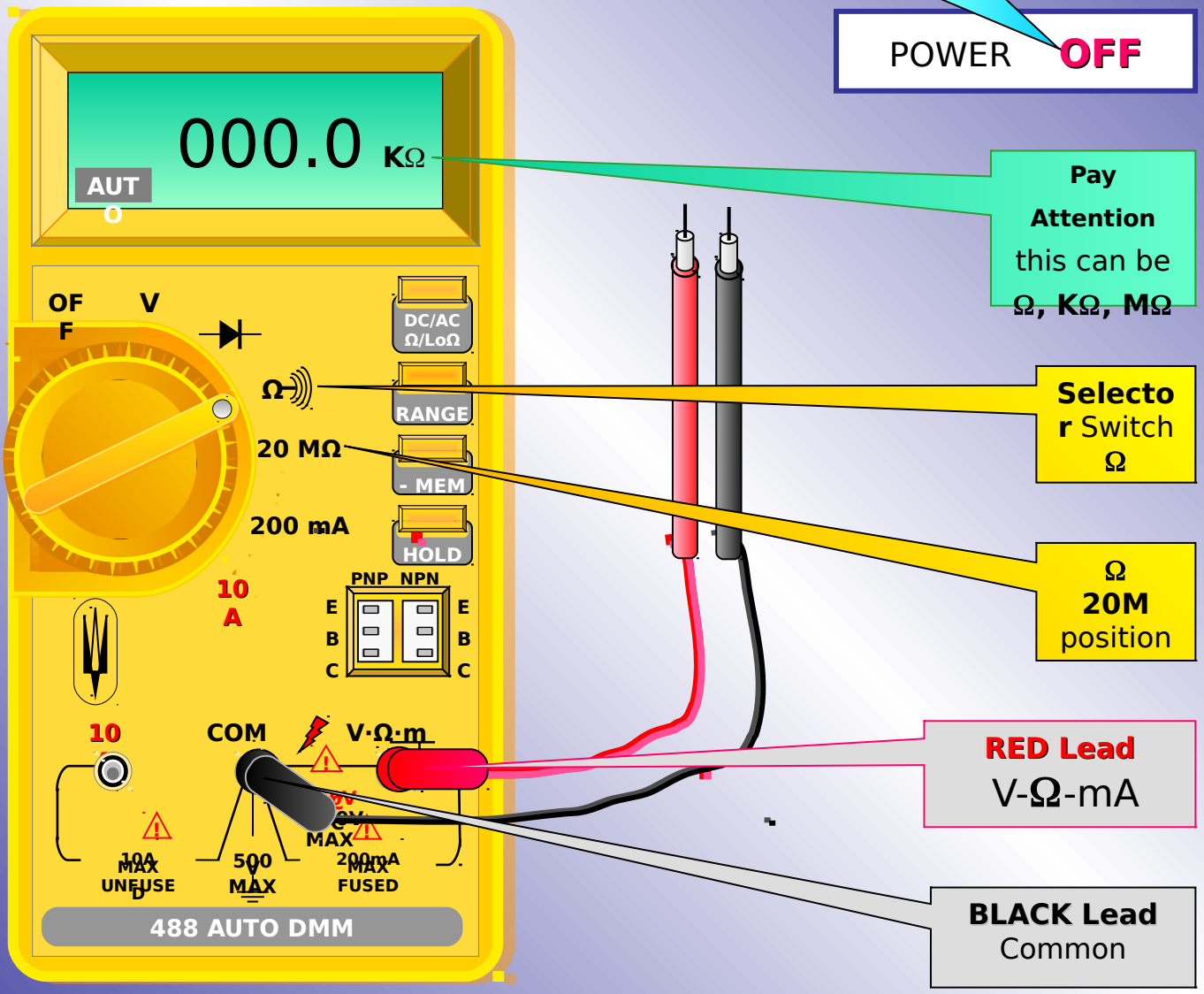
DC: Care & Use Multimeter (EOD-55D)

DC Resistance; Ω Position.



Challenge

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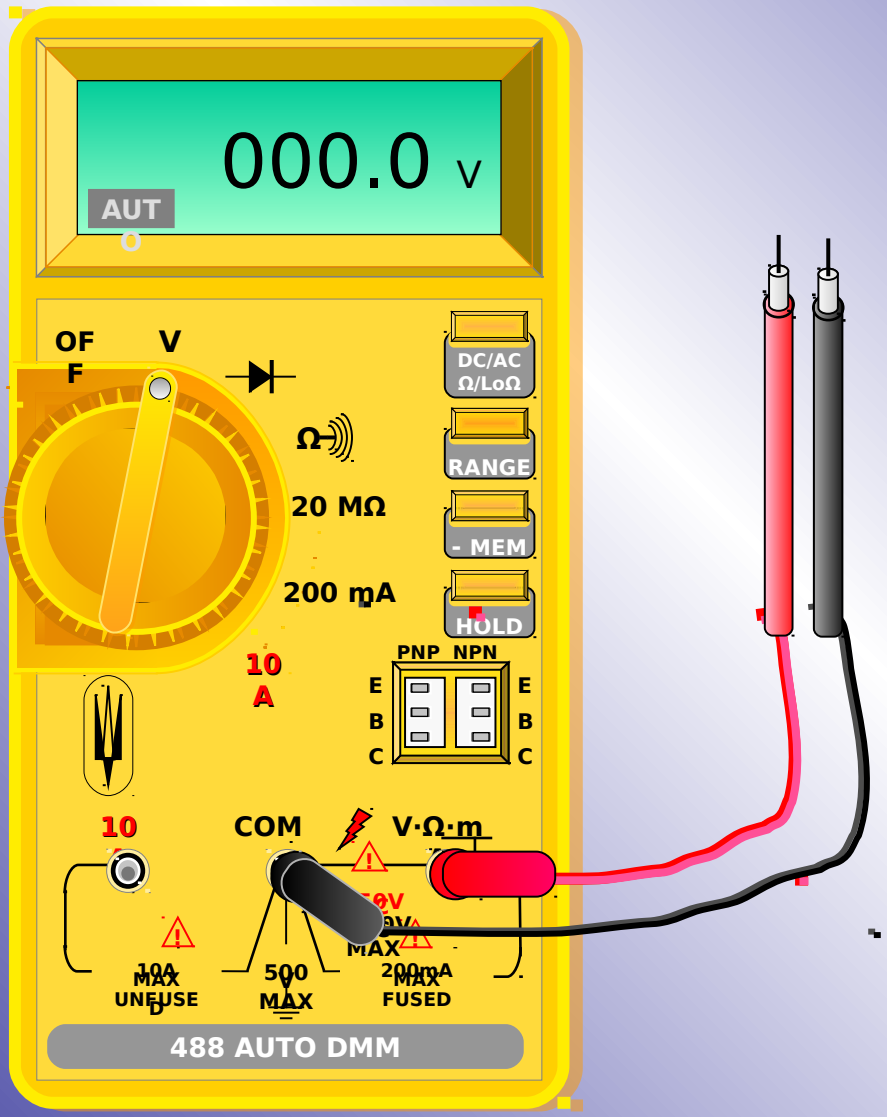
DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



POWER **ON**

Voltage

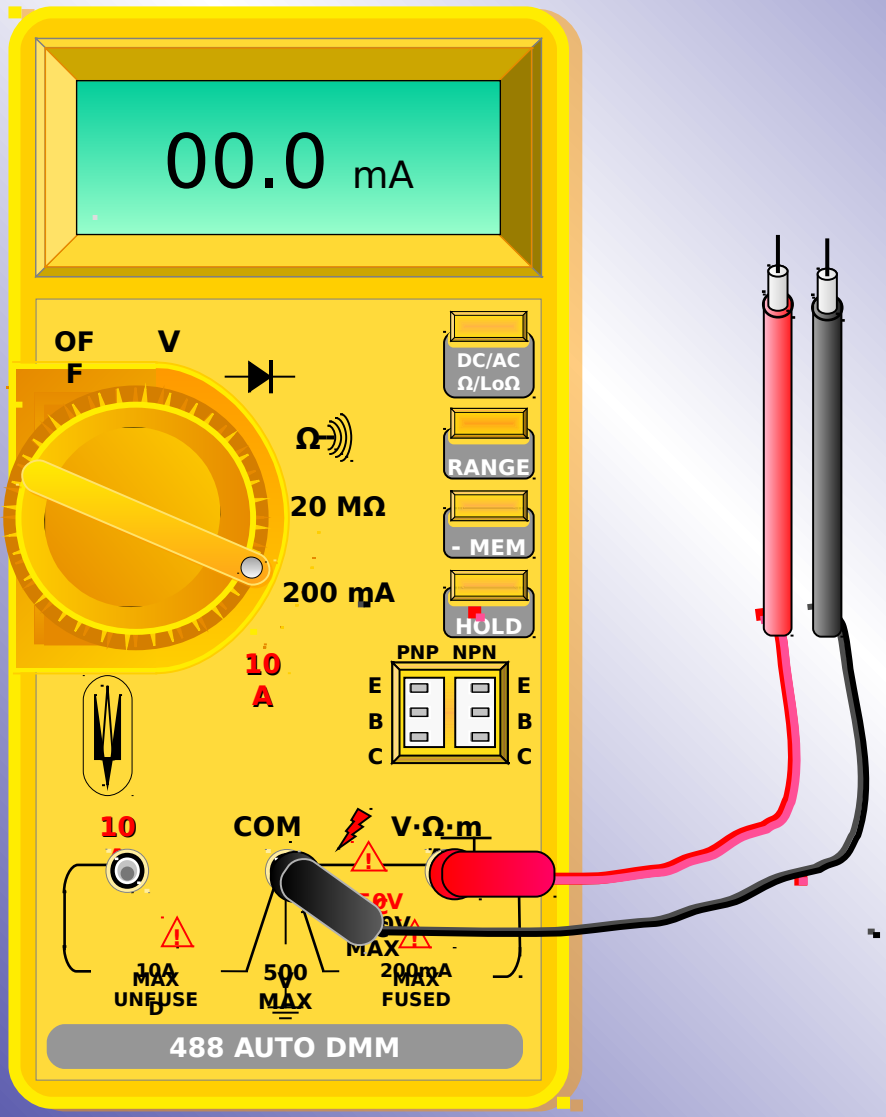
Current

Resistance

Challenge

DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



POWER **ON**

Voltage

Current

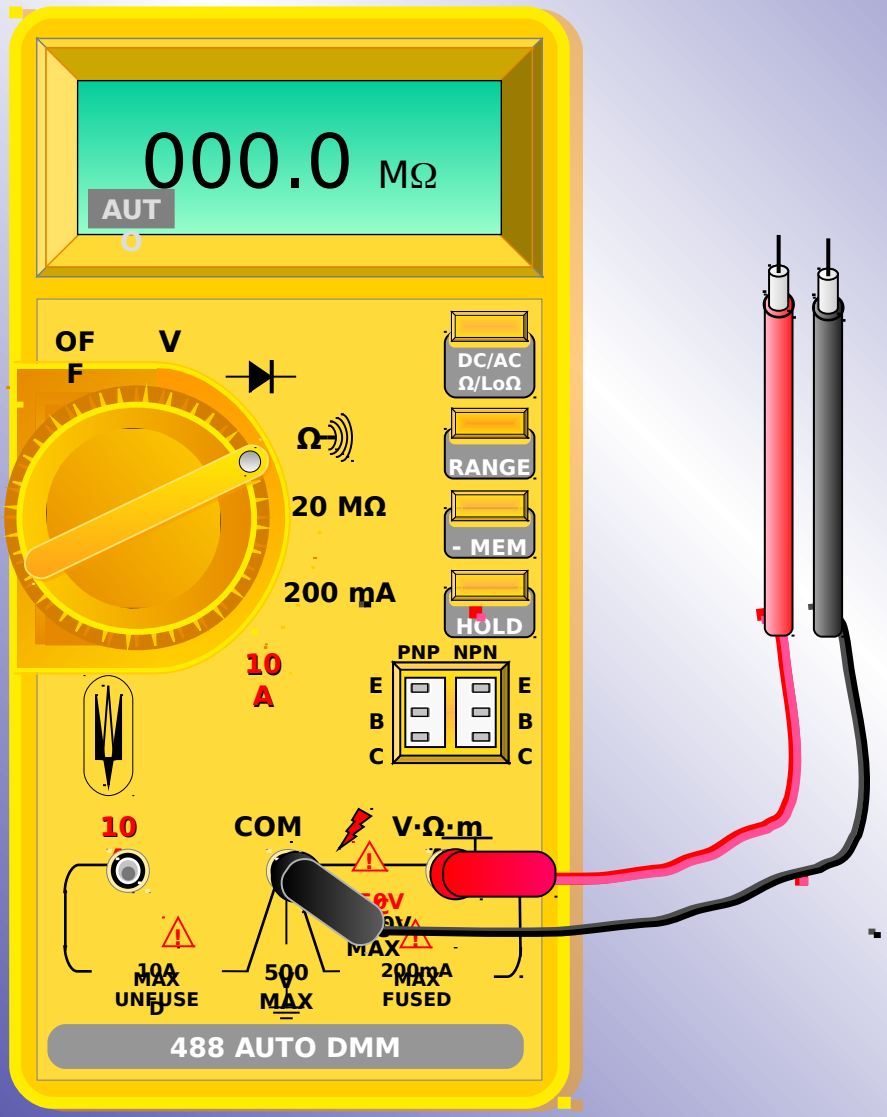
Resistance

Challenge

CF351 B06-

DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



POWER **OFF**

Voltage

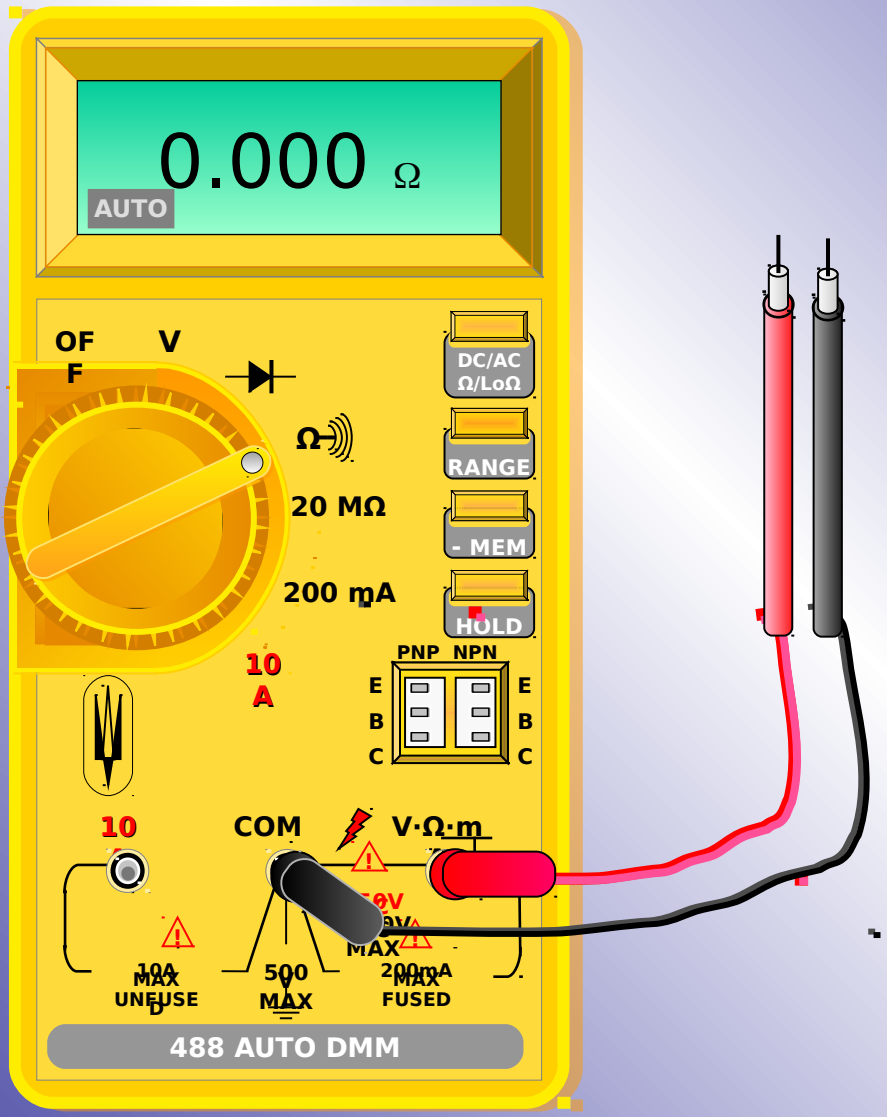
Current

Resistance

Challenge

DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



POWER **OFF**

Voltage

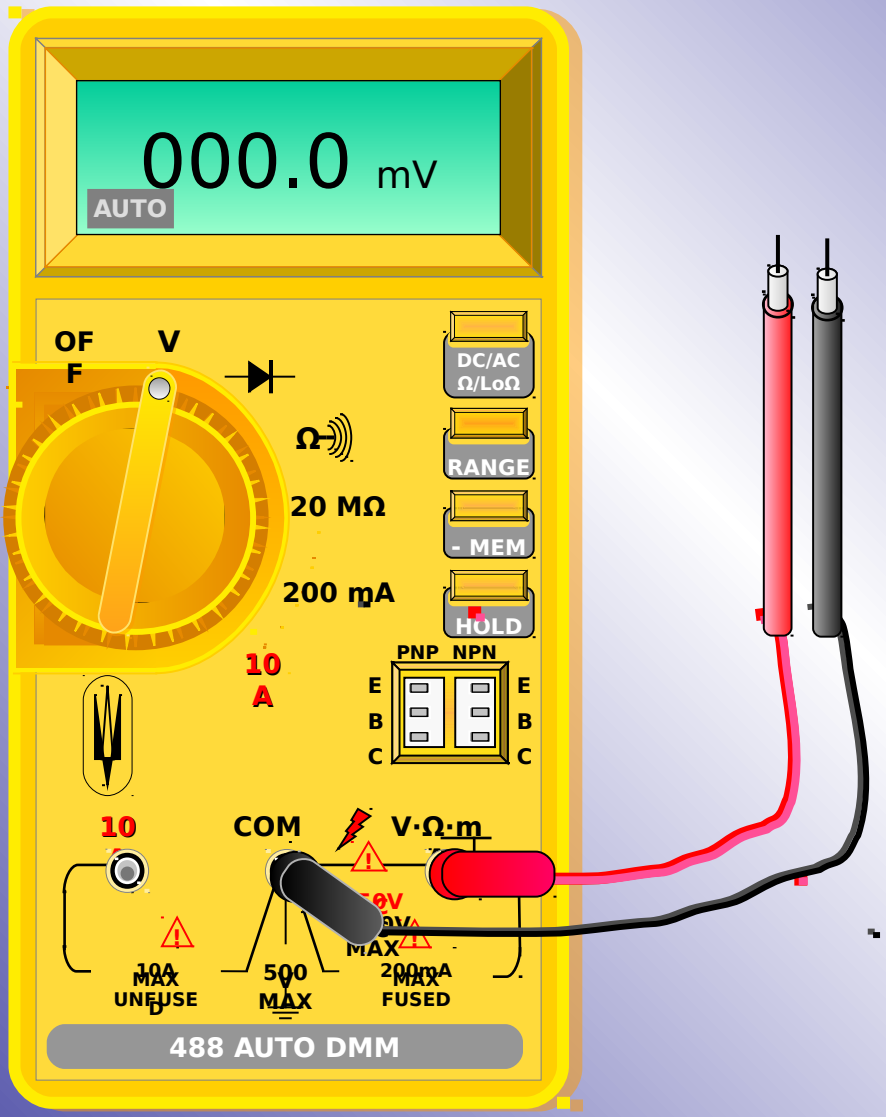
Current

Resistance

Challenge

DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



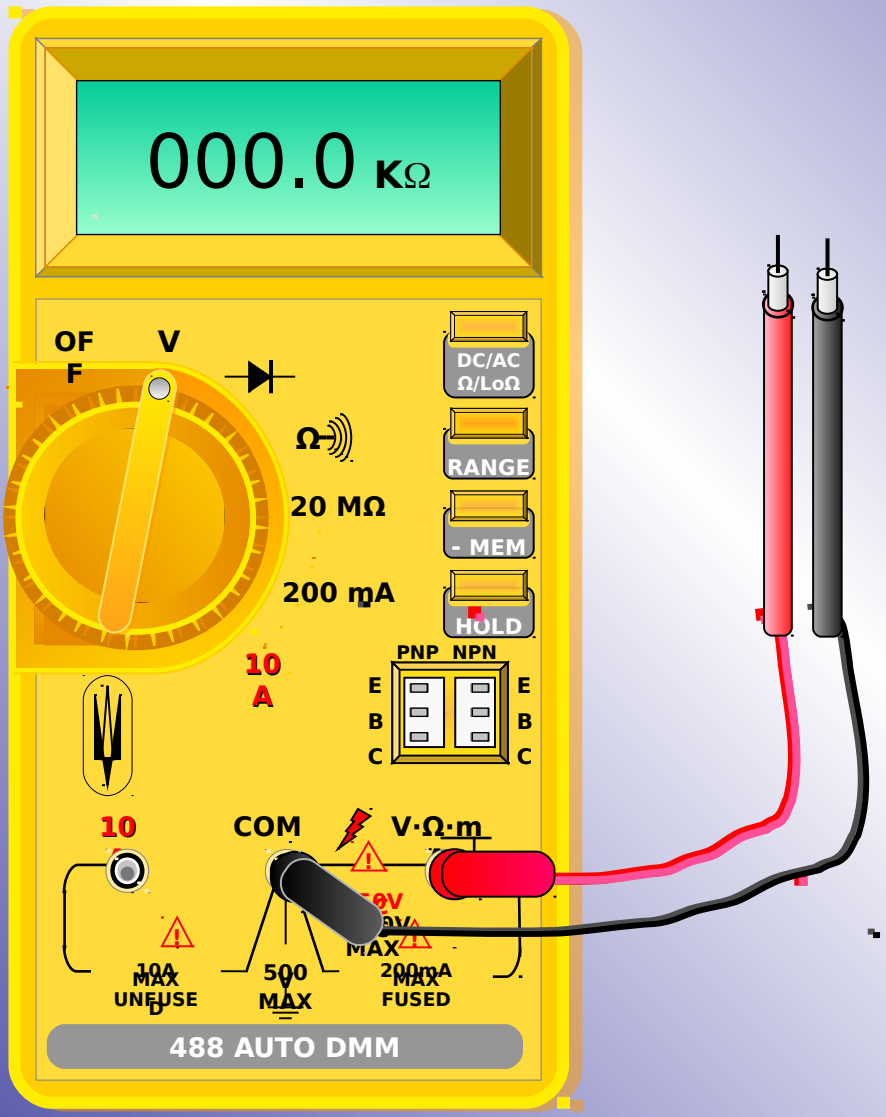
POWER **ON**

- Voltage
- Current
- Resistance

Challenge

DC: Care & Use Multimeter (EOD-55D)

Challenge; This Meter is set up to measure V, A, R ?



POWER **OFF**

Voltage

Current

Resistance

Measurements **R**

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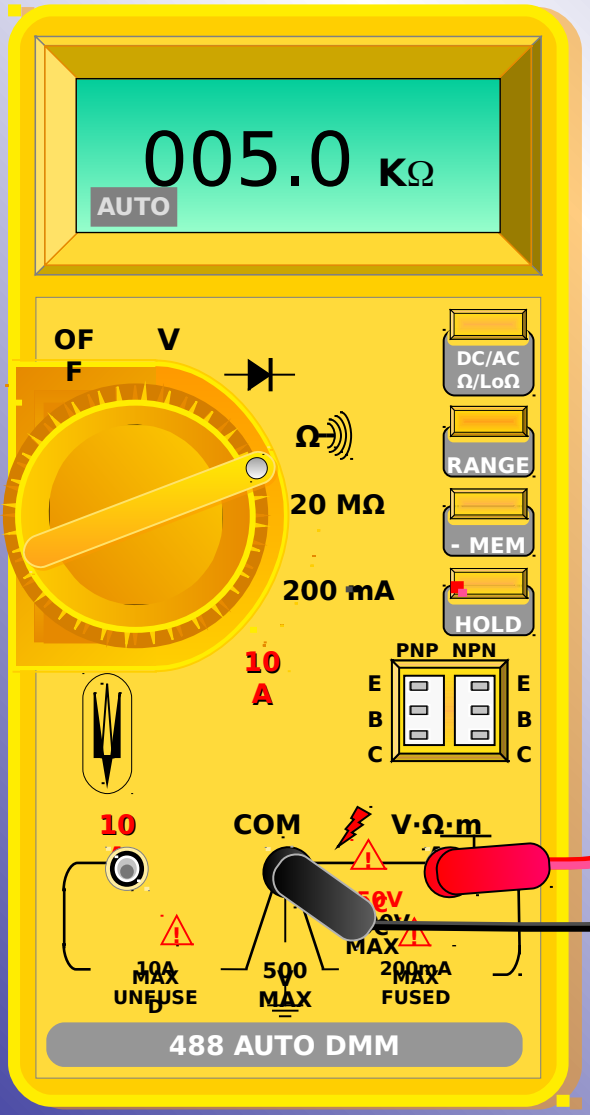
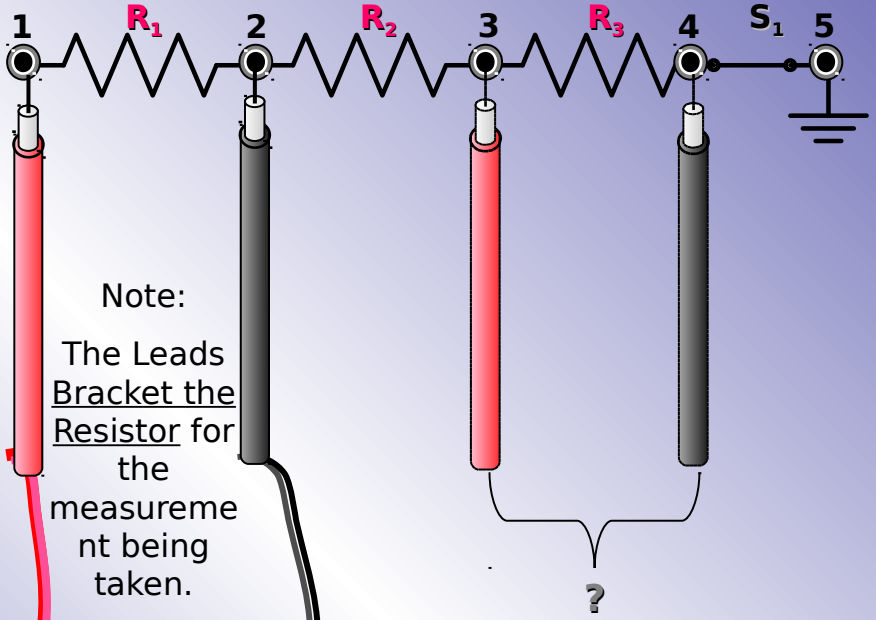
DC: Care & Use Multimeter (EOD-55D)

Taking Measurements; Resistance .



POWER **OFF** **Circuit Isolated**



Note:

The Leads Bracket the Resistor for the measurement being taken.

Which Resistor Measurement is being taken.

Measurements **V**

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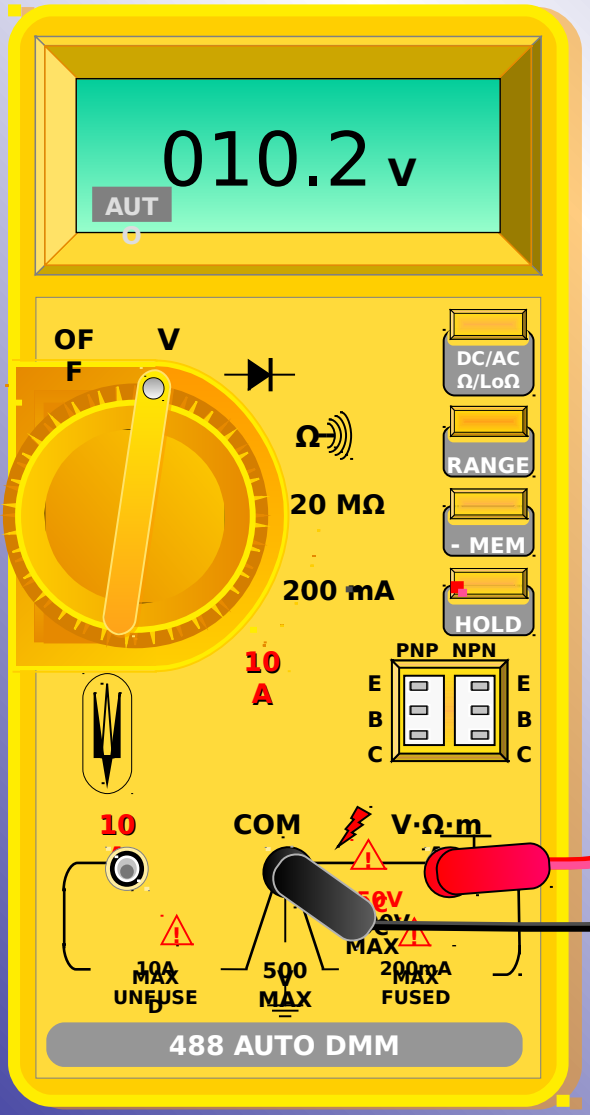
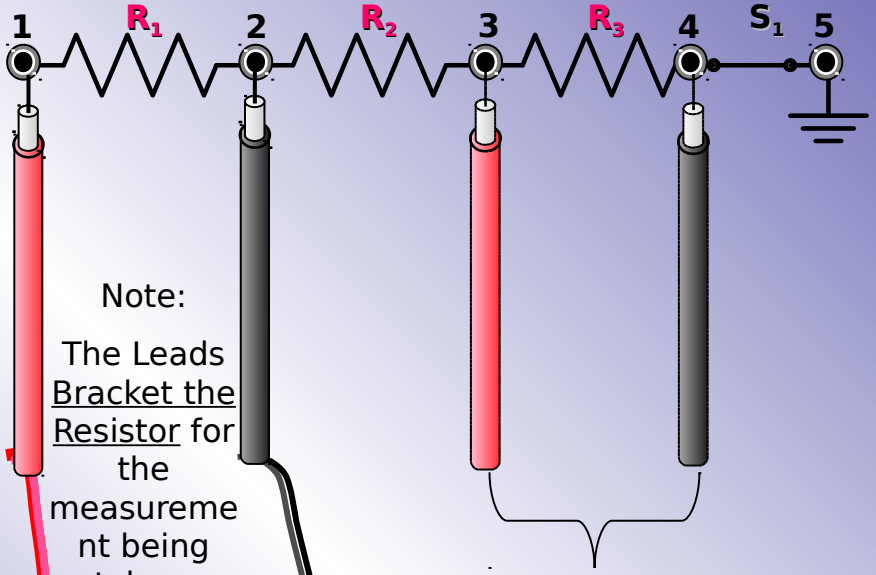
DC: Care & Use Multimeter (EOD-55D)

Taking Measurements; Voltage Drops .



POWER **ON**

Circuit Isolated



Note:

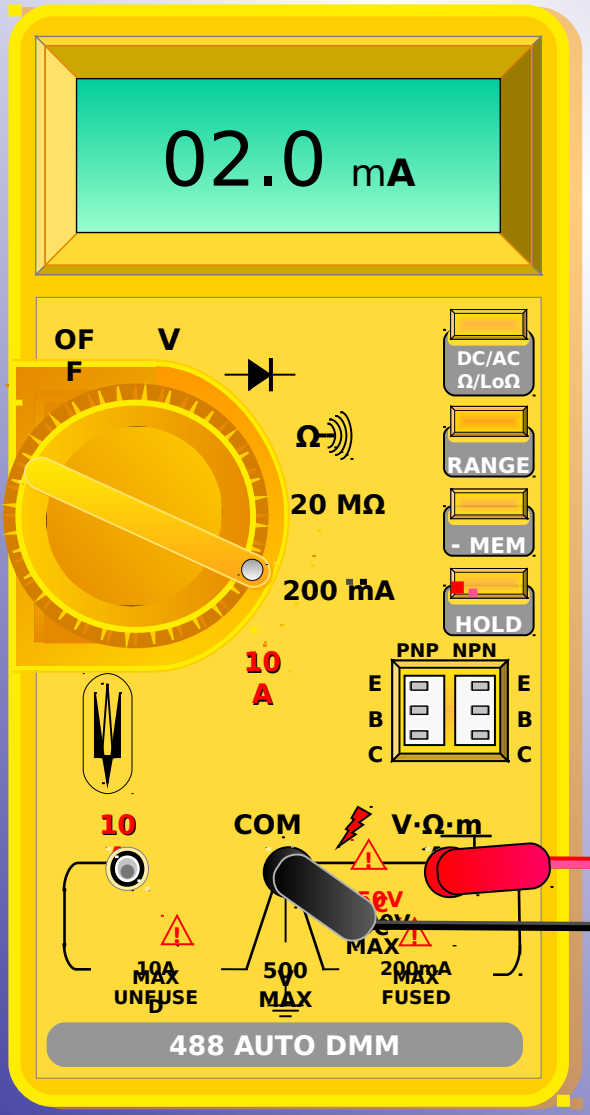
The Leads Bracket the Resistor for the measurement being taken.

Note: The Black Lead is orientated toward Ground.

Measurements I

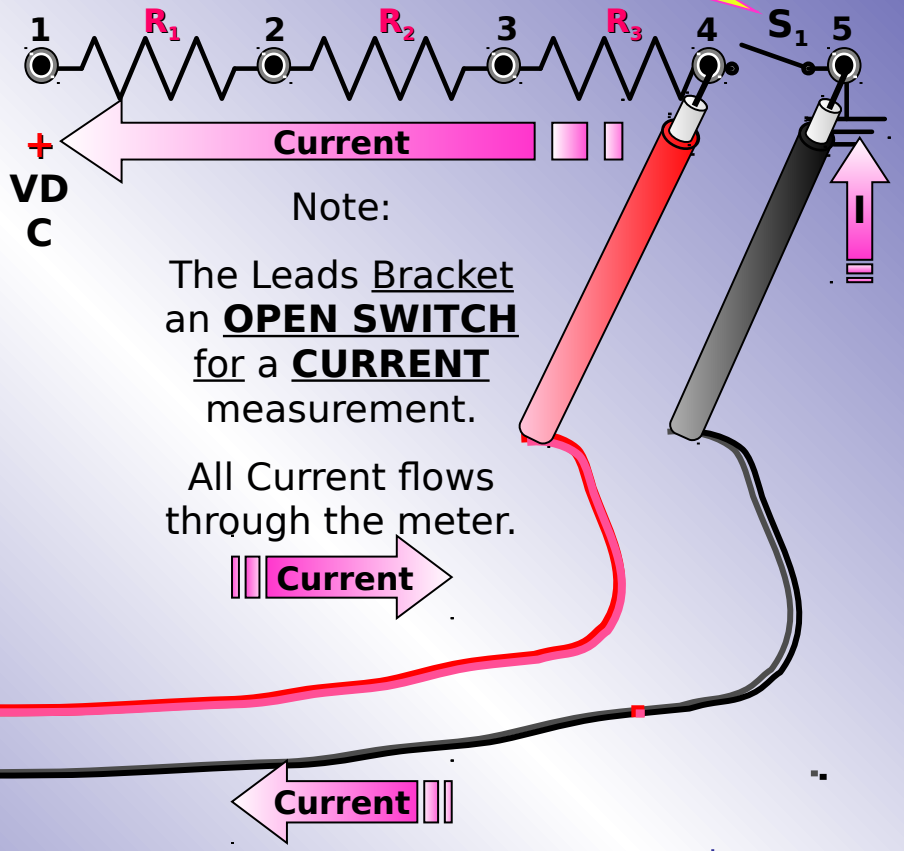
DC: Care & Use Multimeter (EOD-55D)

Taking Measurements; Current .



POWER **ON**

OPEN switch



Blank Meter & Ckt

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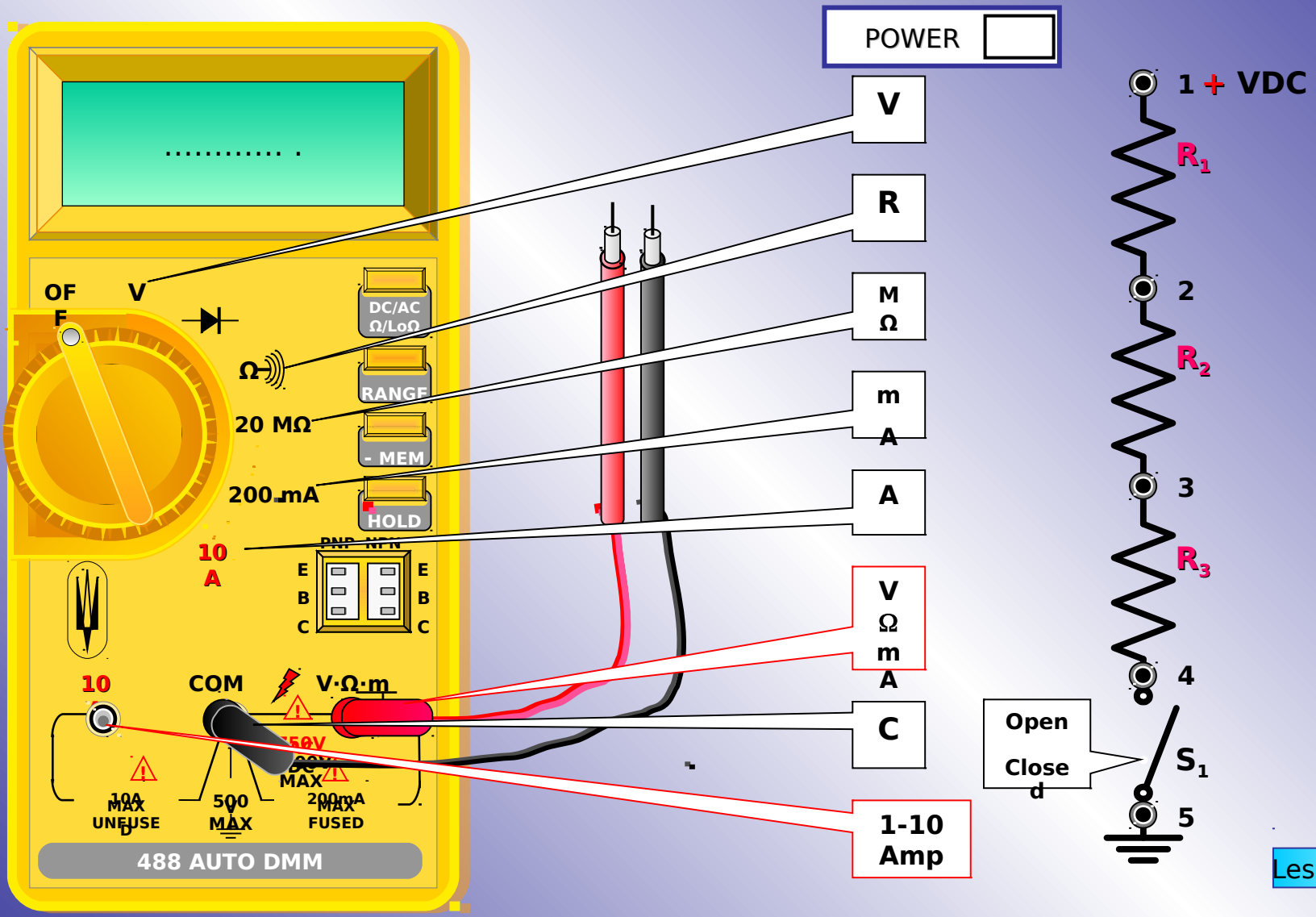
DC: Care & Use Multimeter (EOD-55D)

Taking Measurements;



Lesson Test

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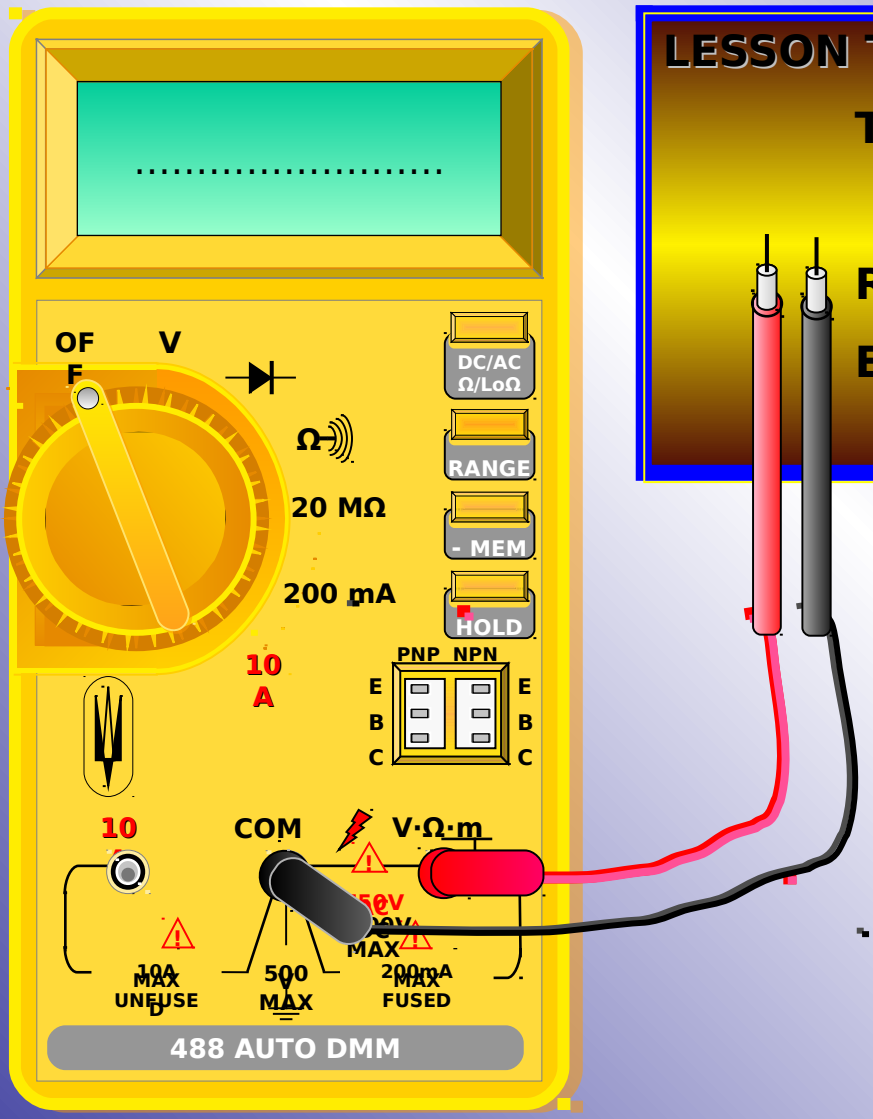
DC: Care & Use Multimeter (EOD-55D)

SUMMARY & QUESTIONS:



LESSON TEST:

Time; 20 Minutes.

References; Without.

EOD Standard; 80% minimum.

Figure 1 & 2

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DC: Care & Use Multimeter (EOD-55D)

Lesson Test Figure 1 & 2:

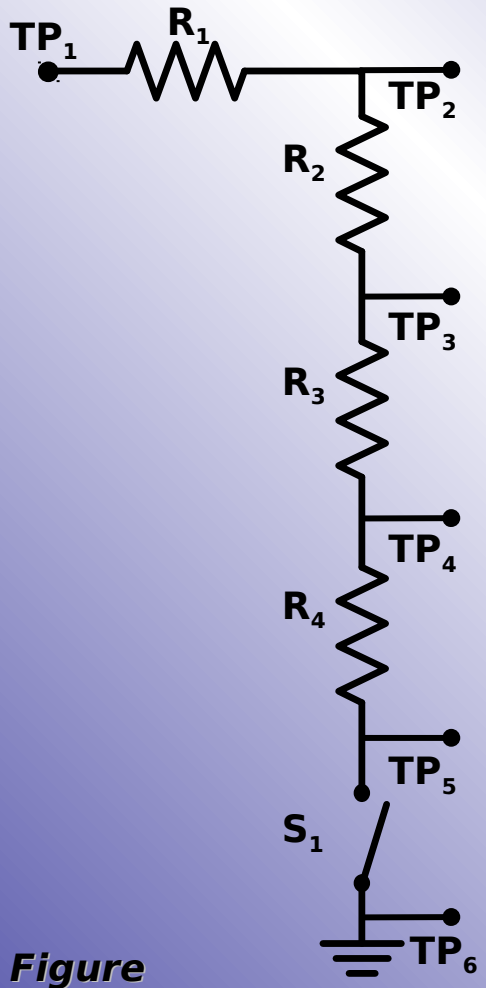

Figure 1.

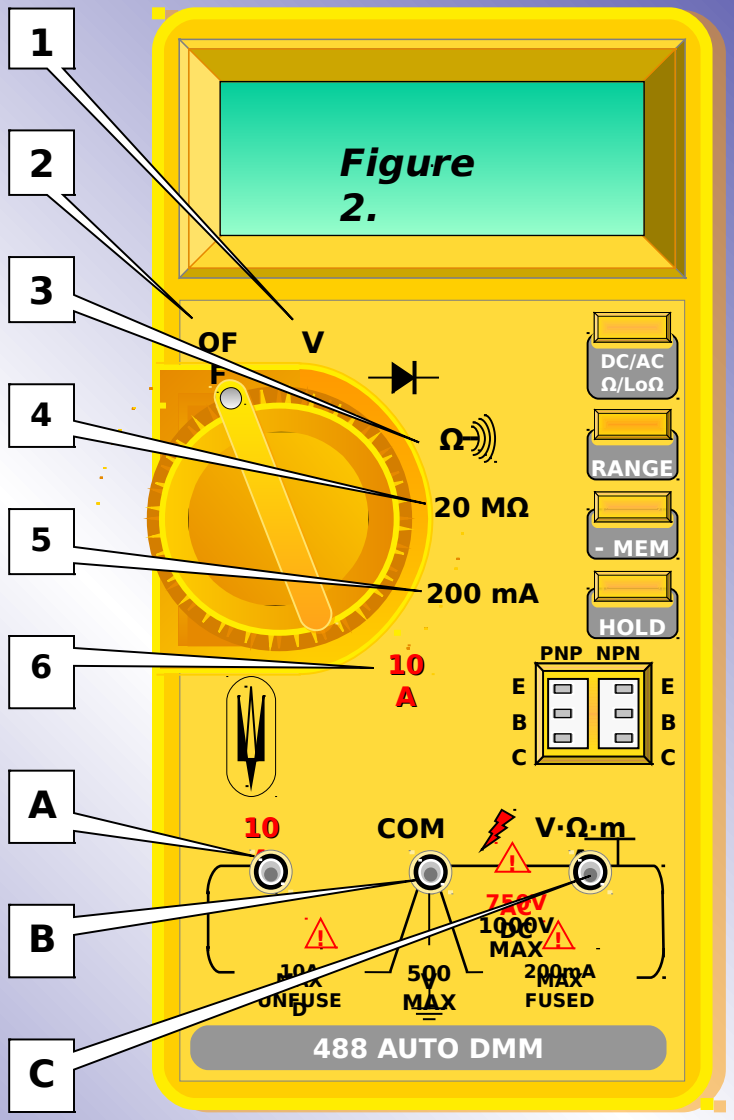

Figure 2.